WEB TECHNOLOGIES

jQuery AJAX and fetch() methods

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- jQuery provides methods that use XMLHttpRequest internally to make AJAX requests

- The methods are
  - $.ajax
  - $.get
  - $.post
  - $("elem").load

- In a single method call, the entire functionality of making an AJAX call using XMLHttpRequest and updating the page can be achieved

jQuery AJAX methods
$.ajax

- Syntax
    - $.ajax({name:value, name:value, ... })
- Example
    - $.ajax({url: "demo_test.txt", success: function(result){
        $("#div1").html(result);
      }});
    - $.ajax('/jquery/submitData', {
            type: 'POST',   // http method
            data: { myData: 'This is my data.' },   // data to submit
            success: function (data, status, xhr) {   // success callback function
                    $('p').append('status: ' + status + ', data: ' + data);
            },
            error: function (jqXhr, textStatus, errorMessage) {
                    $('p').append('Error' + errorMessage);
            }
        });

jQuery AJAX methods
$.get

- Syntax
  - $.get(url, [data],[callback]);
- Example
  - $.get('/jquery/getjsondata',   // url
        {name:'Steve'},   // request parameters
        function (data, textStatus, jqXHR) {   // success callback function
             $('p').append(data.firstName);
        }
     );
- Other Variants
  - $.getJSON(url, [data],[callback]);
  - $.getScript(url, [data],[callback]);

jQuery AJAX methods
$.post

- Syntax
    - $.post(url,[data],[callback],[type]);
- Example
    - $.post('/jquery/submitJSONData',   // url
            { myData: 'This is my data.' },   // data to be submitted
            function(data, status, jqXHR) {   // success callback function
                $('p').append('status: ' + status + ', data: ' + data);
            },
            "json"   //response type
        );
- Internally uses $.ajax with method="post"

jQuery AJAX methods
$.load

- Allows HTML or text content to be loaded from a server and added into an existing DOM element
- Syntax
  - $('selector').load(url,[data],[callback],[type]);
- Example
  - $('#msgDiv').load('getData',   // url
                { name: 'bill' },   // data
                function(data, status, jqXGR) {   // success callback function
                      console.log('data loaded')
                }
        );

fetch() AJAX method
Introduction

- Starts the process of fetching a resource from the network
- Returns a promise which is fulfilled once the response is available
- The promise resolves to the Response object representing the response to your request
- The promise does not reject on HTTP errors — it only rejects on network errors. You must use **then** handler to check for HTTP errors.

- Syntax
    const fetchResponsePromise = fetch(resource [, init])

fetch() AJAX method
Code Example

```
const mydiv = document.querySelector('.my-div');

fetch('resp.html')              // returns a promise that resolves on response object
.then(function(response) {
    return response.text();  // returns a promise that resolves on text response
})
.then(function(text) {
    mydiv.innerHTML= text;
});
```

THANK YOU

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